

FEDORTSOV, Boris Fedorovich; KOTOV, P.A., prof., retsenzent; ZELIGER,
N.B., prof., retsenzent; BERGMAN, P.Ya., red.; SOBOLEVVA,
Ye.M., tekhn.red.

[Phototelegraphy] Fototelegrafiia. Moskva, Gos.energ.izd-vo,
1960. 354 p. (MIRA 13:5)
(Phototelegraphy)

24852

S/106/60/000/004/007/007

A055/A133

6.7100AUTHOR: Zeliger, N. B.

TITLE: Criteria for the estimating of the quality of telegraph transmission

PERIODICAL: Elektrosvyaz', no. 4, 1960, 62 - 71

TEXT: The author describes the fundamental criteria for the estimating of the reliability of telegraph communication, viz 1) the degree of start-stop distortion (such as it was defined by the International Telegraph and Telephone Consultative Committee) and the degree of general distortion; 2) the phase-range at reception; 3) the margin of telegraphic apparatuses, and 4) the margin of stability of telegraph communication. Start-stop distortions. - The author explains how start-stop distortions arise and briefly discusses formulae.

$$\delta_{stst} = \frac{|t_n - t_x|_{max}}{t_o} \quad (1)$$

and

$$\delta_{stst} = \frac{|\Delta t_n - \Delta t_x|_{max}}{t_o} \quad (2)$$

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Criteria for the estimating of the quality of...

measuring the degree of start-stop distortions. He describes the principle of start-stop distortion measurement with the aid of the cathode-ray tube. "Phase-adjuster" range ("Diapazon Fazoustanovitelya") and optimum moment of registration. - The general definition of the "phase adjuster" range is followed by the reproduction of the fundamental formulae determining this range and the optimum moment of registration of the sending. Margin μ_{stst} . - The author explains the measuring of the margin and emphasizes that it is one of the most important criteria. After reproducing formula

$$\mu = \frac{\theta}{t_0} \quad (9)$$

used for measuring the margin of start-stop apparatuses (θ being the boundary value of start-stop distortion), he speaks of the theoretical, the effective and the nominal margin, such as they were defined by the C.C.I.T.T (see English-language reference). Relationship existing between the "phase adjuster" range, on the one hand, and the margin of the apparatus and the margin of stability of communication, on the other. - The turning of the "type-setting muff" ("nabornaya mufta") through angle γ_s corresponds to the "phase adjuster" range. The relationship between the "phase adjuster" range and the margin is

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$$\mu_{\text{stst}} = \frac{\varphi_s^0}{12t_0 n_0} \quad (20)$$

where $\varphi_s^0 = \frac{180}{\pi} \varphi_s$, and n_0 is the angular velocity of the muff (rpm). When distorted sendings reach the electromagnet of the apparatus, the "phase adjuster" range decreases from its maximum value φ_s^0 to φ_x^0 . The higher the distortion degree, the smaller is φ_x^0 . The range φ_x^0 characterizes the margin of stability m of telegraph communication. The relationship between m and the degree of start-stop distortion is briefly discussed by the author. General distortions. - After explaining the fundamental difference between the start-stop and the continuously rotating apparatus, the author mentions the conception of the degree of the general or isochronous distortion of telegraph sendings, - a conception introduced by the C.C.I.T.T. for estimating the quality of the performance of continuously rotating telegraph apparatus. Speaking of this distortion, he reproduces, for instance, the following formula allowing to measure it:

$$\delta_{\text{gen}} = \frac{t_{\text{max}} - t_{\text{min}}}{t_0} \quad (23)$$

where t_{max} is the maximum value of the delay in the reproduction of one of the

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boundaries between sendings of a given series, and t_{\min} is the minimum value of the delay in the reproduction of the other boundary between sendings of the same series. Measurement of general distortion. - The author briefly explains the measuring principle of general distortion by the stroboscopic method. Margin μ_{gen} . - For measuring the margin of apparatuses where the distortion of corrective sendings does not provoke the shift of registration moments (or of apparatus where these shifts can be neglected), the author cites the following formula

$$\mu = \frac{\theta_{\text{gen}}}{2t_0} \quad (25)$$

The presence of unilateral distortion and of bilateral distortion are briefly examined. At the end of the article, the author states that the existing experimental data do not allow to establish any regular relationship between the degree of general distortion and the degree of start-stop distortion. There are 10 figures and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: "International Telegraph and Telephone Consultative Committee (C.C.I.T.T.)". Documents of the VIIIth plenary assembly, Geneva, 1956. International Telecommunication Union, February 1957.

SUBMITTED: November 2nd, 1959

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ZELIGER, N.B.

Criterion for evaluating the quality of telegraph transmission.
Elektrosviaz' 14 no.4:62-71 Ap '50. (MIRA 13:6)
(Telegraph)

ZELIGER, Naum Borisovich; TOMASHEVSKIY, B.A., otv. red.; KIRILLOV, L.M.,
red.; MARKOCH, K.G., tekhn. red.

[Course on telegraphy] Kurs telegrafii. Moskva, Gos. izd-vo lit-
ry po voprosam sviazi i radio. Pt.1. [Principles of telegraphy
and teletype apparatus] Osnovy telegrafii i startstopnye tele-
grafnye apparaty. 1961. 198 p. (MIRA 14:8)
(Telegraph)

VITENBERG, Moisey Izrailevich; ZELIGER, N.B., prof., retsenzent;
ARONOVICH, B.I., dots., retsenzent; USSEH, A.S., red.; SOBOLEVA,
Ye.M., tekhn. red.

[Design of electromagnetic relays for automatic control and communication apparatus] Raschet elektromagnitnykh rele dlja appara-tury avtomatiki i sviazi. Izd.2., perer. i dop. Moskva, Gos. energ.izd-vo, 1961. 704 p.
(MIRA 15:1)
(Electric relays)

ZELIGHER, RIRI

RUMANIA/Analysis of Inorganic Substances

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19564

Author : Marta Stan Suciu, Riri Zeligher

Inst : C. J. Parhon University

Title : Application of Ascorbic Acid to Volumetric Determination of Tin.

Orig Pub: An. Univ. "G. J. Parhon". Ser. Stiint. Natur.,
1956, No 10, 39 - 50.

Abstract: Sn is eliminated from the solution by reducing it with metallic Al or Zn; the metallic Sn is dissolved in HCl, then the ion Sn^{2+} is oxidized by an excessive quantity of titrated $FeCl_3$ solution and boiling, the titer having been determined using the ascorbic acid (determined with iodine) at 60° and pH 1 in presence of KSCN as of an indicator.

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S/117/60/000/012/003/022
A004/A001

AUTHOR: Zeligman, L. D.

TITLE: Using Glue Instead of Zinc

PERIODICAL: Mashinostroitel', 1960, No. 12, p. 16

TEXT: The Central Laboratory of the Yaroslavskiy zavod "Proletarskaya svoboda" (Yaroslavl' "Proletarskaya svoboda" Plant) carried out a series of tests to investigate the substitution of zinc coatings by the ВДУ-3 (VDU-3) glue. This glue grade is a benzene-acetone or benzene-toluene-acetone-ethylacetate solution of the synthetic VDU resin with nitrile resin mixtures. It is used for the vulcanization of nitrile or "sevanite" resin mixtures to metallic armature and as anti-corrosion coating for the protection from the effects of fumes and acids. The metal surface has to be carefully cleaned and degreased. The glue is produced in the following way: Finely cut pieces of the VDU elastomer (20 parts by weight) are placed in a dry clean vessel, into which the solvent (80 parts by weight) is poured. The mixture is left to swell for 8-10 hours, after which it is stirred periodically to obtain a homogeneous mass. The solvent is composed of acetone (50 parts by weight), ethyl or butylacetate (35 parts by weight) and benzene or toluene (15 weight),

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Using Glue Instead of Zinc

parts by weight). To test the anticorrosion film, the VDU-3 glue was applied to heaters. The first coat was applied by dipping the heaters into the glue, then they were held in the air for 30 minutes. The second coat was applied in the same way. Then the heaters were held in the air for 2 hours with subsequent drying at temperatures in the range of 140 - 143°. The temperature was increased and reduced slowly. To check the stability of the coat the heater was placed in a drier for 2 hours. No changes of the glue coat could be observed. Tests were carried out to determine the heat-transfer coefficient of heaters with different coatings. It was found as a result of the data obtained that, as to heat-transfer, glue-coatings yield better results than zinc coatings. During solidification the glue does not evolve volatile products. The VDU-3 glue coating is characterized by a high hardness and mechanical strength, possesses a high chemical durability, good adhesion and high resistance against the effects of acids, alkali, water and gasoline.

Card 2/2

ZELIGMAN, L.D.

Epoxy resin binders. Mt.proizv. no.7:37 Je '60. (NIKA 13:7)
(Foundries--Equipment and supplies)
(Binding materials)

ZELIGMAN, L.N. [Zelihman, L.N.]; ZAMYATIN, Yu.V. [Zam'iatin, IU.V.]

Ampoules for repeated use in the manufacture of plastic
scintillators. Khim. prom. no.4:75-76 O-D '64. (MIRA 18:3)

22.1GKM. N. 1.

23249. Bor'ba s vrednymi vyseleniyami na metallurgicheskikh i zhiricheskikh predpribuzdivakh. Trud. zhar'k. Khim.-tekhnol. Khim.-tekhnol. In-ta. Im. Kirova, vyp. 7, 1949, c. 201-04.-Bibliogr: 5 Nazy.

SO: LETOFIS' N. 31, 1945

ZELIGMAN, N.A. absent.

Kharkov Branch of the D. I. Mendeleev All-Union Chemical Society,
Khim. nauka i prom. 2 no.3:388-390 '57. (MIRA 10:8)
(Kharkov--Chemical societies)

Zeligman N. A.

68-58-2-13/21

AUTHORS: Belov, K.A., Doctor of Technical Sciences and
Zeligman, N.A., Candidate of Economic Sciences

TITLE: On the Problem of the Choice of Method of Purification
of Gas from Hydrogen Sulphide in Coke Oven Works Situated
in the Southern USSR (K voprosu o vybore metoda ochistki
gaza ot serovodoroda na koksokhimicheskikh zavodakh yuga
SSSR)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp. 52 - 53 (USSR)

ABSTRACT: This is a contribution to the discussion on the problem
on the pages of this journal (1957, Nr 5, pp 47-50 and Nr 6,
pp 48 - 51). The present authors pointed out that the
opposite conclusions as to the cost of cleaning gas by vacuo-
carbonate and arsenical methods reached by the authors of
previous papers is due to the different approach of the
respective authors to the analysis and interpretation of
reported data, which underlines the necessity of considering
costs taking into consideration local conditions. The authors
consider the vacuo-carbonate method as the simpler one and
cheaper in operation, but this does not exclude the possibility
that under certain conditions the arsenical method can be more
advantageous.

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68-58-2-13/21

On the Problem of the Choice of Method of Purification of Gas from Hydrogen Sulphide in Coke Oven Works Situated in The Southern USSR

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina (Kharkov Polytechnical Institute imeni V.I. Lenin)

AVAILABLE: Library of Congress

Card 2/2

1. Gases - Purification
2. Hydrogen sulfide - Elimination
3. Coal gas - Purification

ZETLIGMAN, N.A.

Economics of the comprehensive utilization of brown coals in
the U. S. S. R. Trudy KhPI no.2:99-101 '59. (MIRA 1959)
(Dnieper Basin—Lignite)

ZELIGMAN, N.A.

Conference on the utilization of Shebelinka gas and construction
of a chemical combine. Ukr. khim. zhur. 27 no.4:546-547 '61.
(MIRA 14:7)

(Shebelinka region--Gas, Natural)

ATROSHCHENKO, V.I., doktor tekhn.nauk; ZELIGMAN, N.A., kand.ekonom.nauk

Contribution of Khar'koy chemists to the chemization of the country.
Zhur. VKHO 9 no. 3:342-345 '64. (MIRA 17:9)

ZELIGMAN, S.B.

USSR / Human and Animal Morphology (Normal and Pathological).
Skeleton.

S

Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97143

Author : Zeligman, S.B.
Inst : Stalino Medical Institute
Title : The Growth and Aging Peculiarities of the Cricoid
Cartilage of the Human Larynx.

Orig Pub : Tr. Stalinskogo med. in-ta, 1957, 10, 147-158

Abstract : It was shown in 2,155 human cricoid cartilages (CC) at
ages of 3-month-old intra-uterine development to 80 years
(1,289 male and 866 female) that the relationship of the
heights of the lamina of CC to its width is, on the average,
always less than one. In embryogenesis, the lamina of CC
is square; to 1½ years of age - trapezoidal; to 20 years of
age - hexagonal. The angles of the lamina are more sharply
expressed in men than in women; in the former, the growth

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USSR / Human and Animal Morphology (Normal and Pathological).
Skeleton.

S

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of the lamina in height and width usually occurs at
different times; in the latter, at the same time. With
aging, the relative height of the arc of CC becomes smaller
than the height of its lamina. Projection of the CC arc on
the lamina is not constant, is connected with age and sex,
and depends on the character of development of the first
tracheal ring and other circumstances. The form of the CC
arc depends on the character and strength of interaction
of the musculature connected with it. Anomalous fusions
of the CC arc with the tracheal ring are encountered.

Card 2/2

ZELIGMAN S. B.

USSR / Human and Animal Morphology - Respiratory Tract. S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101435

Author : Zeligman, S. B.

Inst : Stalin Medical Institute

Title : The Histostructure of the Cricoid Cartilage of the Human Larynx in Ontogenetic Growth.

Orig Pub : Tr. Stalinskogo med. in-ta, 1957, Vol. 10, 159-168

Abstract : In 193 human larynges from cadavers ranging in age from 3 months of intra-uterine life to 80 years, the processes of change in the structure of the cricoid cartilage (CC) were described. In the initial period of intra-uterine existence, the CC characteristically shows a whorled distribution of cells. The microscopic pictures of the CC and of the thyroid cartilage are different. In the development of the CC a greater place is occupied

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EXCERPTA MEDICA Sec 11 Vol 12/5 C.R.L. May 59

943. THE ROLE OF THE SEXUAL GLANDS IN OSSIFICATION OF LARYNGEAL CARTILAGES (Russian text) - Zeligman S. B. - PROBL. ENDOKR. 1958, 4/3 (55-59) Tables 1 Illus. 2

Analysis of roentgenographical data of the larynges in 2 groups of animals, i.e. castrated and with intact sexual glands, demonstrated that the latter had an effect on the natural process of ossification of laryngeal cartilages by activating this process. In castrated animals this process is either delayed or arrested depending on the age when the sexual glands were removed. Analogous results were obtained in examination of women with complete or partial infantilism.

DOVGYALLO, N.D., ZELIGMAN, S.B.

History of the Department of Normal Anatomy at the Gor'kii
Medical Instituta in Stalino. Arkh.anat.gist. i embr. 35 no.
3:98-100 My-Je '58 (MIRA 11:7)

1. Adres avtorov: Stalino (Donbass), Kalinovka, Makeyevskoye
shosse. Meditsinskiy institut, kafedra normal'noy anatomii.
(STALINO--ANATOMY--STUDY AND TEACHING)

ZELIGMAN. S.B.

Role of gonads in ossification of the laryngeal cartilages [with summary
in English]. Probl.endok., 1 gorm. 4 no.3:55-59 My-Je '58
(MIRA 11:8)

1. Is kafedry anatomii (zav. prof. N.D. Dovgynillo) Stalinskogo
meditsinskogo instituta (dir. - dotsent A.M. Ganichkin).
(LARYNGEAL CARTILATES, physiology
ossification, eff. of castration (Rus))
(CASTRATION, effects,
on laryngeal cartilage ossification (Rus))

ZELIGMAN, S.B., dots (Stalino)

Projection of the vocal cords to the thyroid cartilage in man [with summary in English]. Vest.oto.-rin. 20 no.4:66-67 Jl-Ag '58 (MIRA 11:7)

1. Iz kafedry normal'noy anatomi (zav. - prof. N.D. Dovgyallo) Stalinskogo meditsinskogo instituta.

(VOCAL CORDS, anat. & histol.
projection of vocal fold to thyroid certilage (Rus))
(LARYNGEAL CARTILAGES, anatomy and histol.)
(same)

ZELIGMAN, S.B.

Age changes and sexual peculiarities in the large cartilages of
the human larynx (radiographic and anatomical investigation).
Sud.-med.ekspert. 2 no.2:6-16 Ap-Je '59. (MIRA 13:6)

1. Kafedra normal'noy anatomi (zav. - prof. N.D. Dovgyallo)
Stalinskogo meditsinskogo instituta.
(LARYNX)

ZELIGMAN, S.B.; BELYKH, G.A. [Belykh, H.A.]

Content of certain trace elements (Si, Al, Mn, Cu) in the skeleton
of the human larynx, as related to the chronological development.
Ukr.biokhim.zhur. 31 no.6:868-876 '59. (MIRA 13:5)

1. Department of Normal Anatomy and Department of Biological
Chemistry of the Stalino Medical Institute.
(LARYNX)

ZELIGMAN, S.B. (Stalino (Donbass), bul'var Pushkina, d. 25, kv.28)

Age changes in the histostructure of the thyroid cartilage in man.
[with summary in English]. Arkh.anat.gist. i embr. 36 no.2:43-51
(MIPA 12:4)
F '59.

1. Kafedra normal'noy anatomi (zav. - prof. N.D. Dovgyallo)
Stalinskogo meditsinskogo instituta.
(LARYNGEAL CARTILAGES, anat. & histol.
thyroid cartilage, histol., age factor (Rus))
(AGING, effects,
on thyroid cartilage histol. (Rus))

ZELIGMAN, S.B. (Stalino (Donbass), bul'var Pushkina, 25, kv. 28)

Calcification and ossification of the thyroid cartilage of the larynx in man; X-ray study, Arkh.anat.gist.i embr. 39 no.9:97-102 S '60. (MIRA 14:1)

1. Kafedra normal'noy anatomi (zav. - prof. N.D.Dovgallyo)
Stalinskogo meditsinskogo instituta.
(LARYNX) (CALCIFICATION)

ZELIGMAN, S.B., dotsent

Structure of the arytenoid cartilages of the human larynx at
different ages. Zhur. ush., nos. 1 gorl. bol. 20 no. 3:45-48
My-Je '60. (MIRA 14:4)

1. Iz kafedry normal'noy anatomi. (zav. - prof. N.D. Dovgyallo)
Stalinskogo meditsinskogo instituta.
(LARYNX)

ZELIGMAN, S.B. (Stalino (Donbass), bul'var Pushkina, 25, kv.28)

Age-related changes in the histological structure of the
laryngeal thyroid cartilage in man. Arkh. anat. glist.
embr. 40 no.3:82-87 Mr '61. (MIRA 14:5)

1. Kafedra normal'noy anatomi (zav. - prof. N.D.Dovgallyo)
Stalinskogo meditsinskogo instituta.
(LARYNX) (CARTILAGE)

GINZBERG, V.V. (Leningrad, F-121,ul.Pisareva,14,kv.7); ZELIGMAN, S.B.
(Stalino (Donbass), Bul'var Pushkins,25,kv.28)

N.P. Gundobin (1860-1908) - the founder of growth anatomy;
on the 100th anniversary of his birth. Arkh. anat. gist.
i embr. 41 no.8:101-107 Ag '61. (MIRA 15:6)

1. Leningradskoye otdeleniye Instituta etnografii AN SSSR
i kafedra normal'noy anatomi (zav. - prof. N.D. Dovgyallo)
Stalinskogo meditsinskogo instituta.
(GUNDOBIN, NIKOLAI PETROVICH, 1860-1908)
(ANATOMY, HUMAN)

ZELIGMAN, S.B., prof.

Correlated morphological characteristics of the human
laryngeal skeleton with respect to age. Zhur. ush., nos.
1 gorl. bol. 23 no.1:66-69 Ja-F '63. (MIRA 17:2)

1. Iz kafedry normal'noy anatomii (zav. - prof. N.D. Dovgallyo)
Donetskogo meditsinskogo instituta.

ZELIGMAN, S.B. (Donetsk (Donetskiy Basseyn), Bul'var Pushkina, 25, kv.28)

Growth of human vocal cords. Arkh. anat. glist. i emir. 45 no.11:
88-92 N '63. (MIRA 17:8)

1. Kafedra normal'noy anatomii (zav. - prof. N.D. Dovgyallo)
Donetskogo meditsinskogo instituta.

ZELYGMAN, S.B.
VLIASYUK, P.A., otvetstvennyy red.; VASILENKO, A.A., red.; YUZHIMCHUK, F.F.,
kand.sel'skokhozyaystvennykh nauk, red.; ZELYGMAN, S.B., kand.
tekhn.nauk, red.; KUKHARENKO, N.I., kand.biol.nauk, red.;
MULYARSKIY, B.Ya., red.izd-va; SIVACHENKO, Ye.K., tekhn.red.

[Improving techniques of using fertilizers] Usovershenstvovanie
tekhniki vnesenija udobrenij. Kiyev, 1955. 255 p. (MIRA 11:6)

1. Akademiya nauk URSR. Kiyev. Rada po vyycheniyu produktivnykh
sil URSR.
2. Deystvitel'nyy chlen Akademii nauk USSR i Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vliasyuk)
3. Deystvitel'nyy chlen Akademii nauk USSR (for Vasilenko)

(Fertilizers and manures)

ZELIGMAN, S.B., kand. tekhn. nauk; BABIY, P.T., inzh.

Mechanized field grain-cleaning barns. Mekh. sil'. hosp. 9
no. 6:5-6 Je '58. (MIRA 11:?)
(Ukraine--Grain--Cleaning)

ZELIGMAN, S.B. [Zelihman, S.B.], kand.tekhn. nauk; BABIY, P.T. [Babii, P.T.],
inzh.

Sizing sunflower seeds. Mekh. sil'. nos. 9 no.4:15-16 Ap '58.
(MIRA 11:5)

(Sunflowers) (Seed industry)

ZELIGMAN, S. B.

BABUK, V.B.; ZELIGMAN, S.B., kand.tekhn.nauk

Theory of the diagonal moving of the checkwire. Mekh. i tekhn. sots.
sel'khoz. 15 no.2:12-17 '58. (MIRA 11:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i
elektrifikatsii sel'skogo khozyaystva. 2. Chlen-korrespondent
Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.
Lenina (for Babuk).

(Planters (Agricultural machinery))

VASILENKO, A.O. [Vasylenko, A.O.], doktor tekhn.nauk; ZELIGMAN, S.B.
[Zelihman, S.B.], kand.tekhn.nauk

Sugar beet harvesting machines abroad. Mekh. sili. hosp.
11 no.10:29-31 0 '60. (MIRA 13:9)
(Sugar beets--Harvesting)

ZELIGMAN, S.B.; DOVINGER, D.G.

Plenary Session and Conference of Ukrainian Scientific Society of
anatomists, histologists and embryologists. Arkh.anat.gist. i embr.
48 no.3:126-128 Mr '65. (MIRA 18:6)

~~ZELIGOWSKA-SZULC, J.~~

Allergic reaction of the hemopoietic system during application of sulfonamides. Pediat. polska 28 no.7:671-684 July 1953. (CLML 25:4)

1. Of the Diagnostic Pediatric Clinic (Head--Prof. Z. Lejmbach, M.D.)
of Warsaw Medical Academy.

EXCERPTA MEDICA Sec. 7 Vol. 9/9 Sept. 55

Zeligowska-Szulc, J.

1942. ZELIGOWSKA-SZULC J., KANSY J., SZULC A. and ZALEWSKA I. Klin. Diagn. Chor. Akad. med. Warszawa. *Klinika lambliaz u dzieci na podstawie własnego materialu. Description of the clinical features of lambliasis in children based on personal material

PEDIAT. POL. 1954, 29/8 (763-777)

Thirty-two cases in children aged 4-15 yr. were divided into 4 types: (1) duodenal, (2) pseudo-ulcerous, (3) hepatic, (4) dyspeptic. There were characteristic symptoms for each type with features common to all of them. Division into groups was based on the case history, duodenal tube and X-ray findings. The hepatic group was the most numerous one (19 cases) showing inflammatory changes of the bile. The most serious symptoms were noted in the pseudo-ulcerous group. Treatment consisted in administering atabrine thrice with 4-week intervals. In all children there was considerable improvement of the general state of health, increase in weight, return of appetite and disappearance of excessive psychical sensitivity. In the pseudo-duodenal group vomiting was arrested and in the dyspepsia group loose stools disappeared. In only 50% of the cases of the hepatic group the inflammatory changes in the biliary tract subsided. Gastric hypoacidity was noted in 26 out of 32 cases. It did not disappear after complete recovery from lambliasis. Functional disorders of the pancreas were not noted. Authors (XX)

XX
ZELIGOWSKA-SZULC J.

EXCERPTA MEDICA Sec.6 Vol.11/3 Internal Med. Mar 57

1486. ZELIGOWSKA-SZULC J. Klin. Diagn. Chor. Dziecięcych A. M., Warszawa, "Zakażenie paluszka Pasteurella u ludzi. Human infection with a Pasteurella bacillus" POL. TYG. LEK. 1956, 11/18 (799-801)
Description of an acute, febrile and fatal infection in a 12-year-old girl. Among the symptoms, the haemorrhagic tendency: epistaxis, petechiae, s.c. haemorrhages, predominated. Pasteurella multocida was obtained from patient's blood in culture. Antibiotic treatment with streptomycin, chlortetracycline, penicillin had no effect on the course of the disease.

Anigstein - Galveston, Tex. (XX. 7. 6)

ZELIGOWSKA-SZULC, Janina (Warszawa)

Observations on the clinical picture of helminthiases in children
and therapeutic results according to data of the pediatric
helminthological clinic in Warsaw. *Wiadomosci parazyty.*, Warsz.
2 no. 5 Suppl:127. 1956.

1. Poradnia Helminologiczna.
(HELMINTH, statistics,
in Poland (Pol))

ZELIGOWSKA-SZULC, Janina

Pasteurella infection in humans. Polski tygod. lek. 11 no.18:
799-801 30 Apr 56.

1. Z Kliniki Diagnostyki Chorob Dziecięcych A.M. w Warszawie;
kierownik prof. dr. Z. Lejmbach. Warszawa, ul. Dziedowska 1,
Klinika Diagnostyki Chorob Dziec.
(PASTEURELLA, infections,
in humans (Pol))

ZELIGOWSKA-SZULC, Janina

Clinical picture and results of helminthiasis therapy on the
basis of observations made by Helminthological Dispensary.
Pediatrik. polska 32 no.2:113-130 Feb 57.

1. Kierownik poradni: dr. M. Zeligowska-Szulc. Adres:
Warszawa, ul. Dzialdowska 1/3.
(HELMINTH INFECTIONS, in inf, & child
clin. manifest. & ther. (Pol))

ZELIGOWSKI, Henryk

GAWIŃSKA-OSTROWSKA, Janina; ZELIGOWSKI, Henryk

Case of Laurence-Moon-Bardet-Biedl syndrome. Polski tygod. lek.
9 no.47:1521-1523 22 Nov 54.

1. Z II Kliniki Chor. Wewn. A.M. w Łodzi; kier. prof. dr med.
J.Jakubowski.
(LAURENCE-MOON-BIEIDL SYNDROME,
case rep.)

JAKUBOWSKI, Jerzy; ZELIGOWSKI, Henryk

Attempted cytologic diagnosis of gastric cancer. Polski tygod. lek.
9 no.47:1510-1513 22 Nov 54.

1. Z II Kliniki Chor. Wewn. A.M. w Lodzi: kier. prof. dr J.Jakubowski.
(STOMACH, neoplasms,
diag., cytol.)

ZELIGOWSKI, Henryk

JAKUBOWSKI, Jerzy; ZELIGOWSKI, Henryk

Arrhythmia and its role in the development of circulatory insufficiency.
Polski tygod. lek. 9 no.49:1567-1569 6 Dec 54.

1. Z II Kliniki Chor. Wewn. A.M. w Lodzi; kier. prof. Dr J.Jakubowski.
(ARRHYTHMIA, complications,
circ. disord.)
(BLOOD CIRCULATION, diseases,
disord. caused by arrhythmia)

ZELIGOWSKI, Henryk

Problem of heart diseases in medical consultation in athletics. Polski
tygod. lek. 11 no.24:1067-1069 11 June 56

1. Z II Klin. Chor. Wew. A. M. w Lodzi; kier. prof. dr med. J. Jakubowski
(HEART DISEASE,
in athletes, med. aspects (Pol))
(ATHLETICS, diseases,
heart dis., med. aspects (Pol))

ZELIGOWSKI, Henryk. (Warszawa ul. Grojecka 66 m 47.)

Value of cytological examination of stomach scrapings for early diagnosis of cancer of the stomach. Polski tygod. lek. 13 no.35:1349-1355
1 Sept 58.

1. z II Kliniki Chorob Wewnętrznych A. M. w Łodzi; kierownik: prof. dr med.
J. Jakubowski.

(STOMACH NEOPLASMS, diag.
cytol. exam of stomach scrapings, value (Pol))

WIELICZANSKI, Henryk; ZELIGOWSKI, Henryk

Late syphilis of the liver. Polski tygod. lek. 13 no.50:2026-2028 15
Dec 58.

1. Z II Kliniki Chorob Wewnętrznych A. M. w Łodzi; kierownik: prof. dr
nauk med. Jerzy Jakubowski. Adres: II Klinika Chorob Wewnętrznych A. M.
w Łodzi, ul. Sterlinga 1/3.

(SYPHILIS, case reports

liver, late syphilis (Pol))

(LIVER DISEASES, case reports

syphilis, late (Pol))

ZELIGOWSKA, IRENA

KUBERSKI, Zdzislaw, Lodz, Armii Czerwonej 15; ZARZYCKA, Helena;
ZELIGOWSKA, Irena

Guillain-Barre syndrome in children. Pediat. polska 29 no.11:
1071-1088 Nov 54.

1. Z II. kliniki chorob dziecięcych Akademii Medycznej w Łodzi
Kierownik: prof. dr. med. Fr. Redlich. Z kliniki chorob nerwowych
Akademii Medycznej w Łodzi. Kierownik: prof. dr. med. E. Herman.
(GUILLAIN-BARRE SYNDROME, in infant and child)

ZELIGOWSKA, Irena

ZELIGOWSKA, Irena (Lodz, Armii Czerwonej 15)

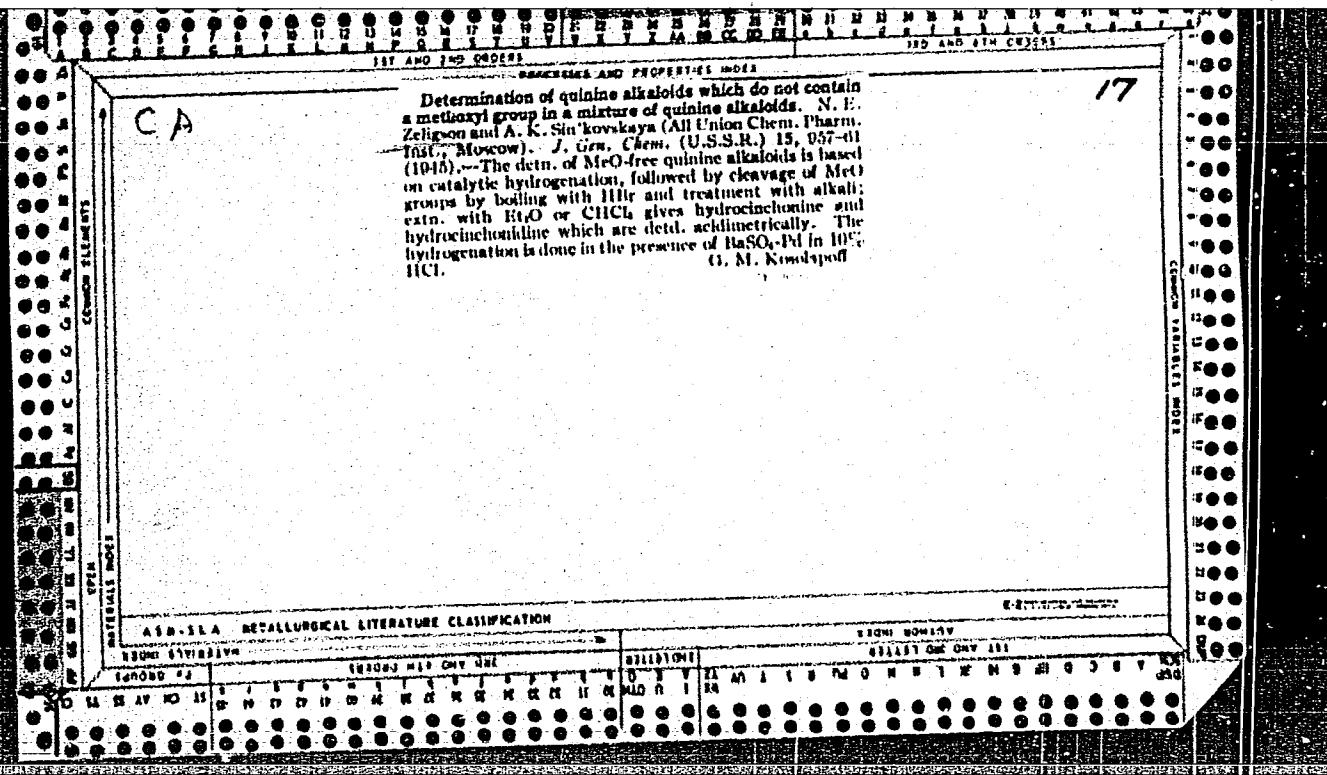
Observation on the nursery for infants with whooping cough in
Lodz. Pediat. polska 29 no.3:312-314 Mr '54.

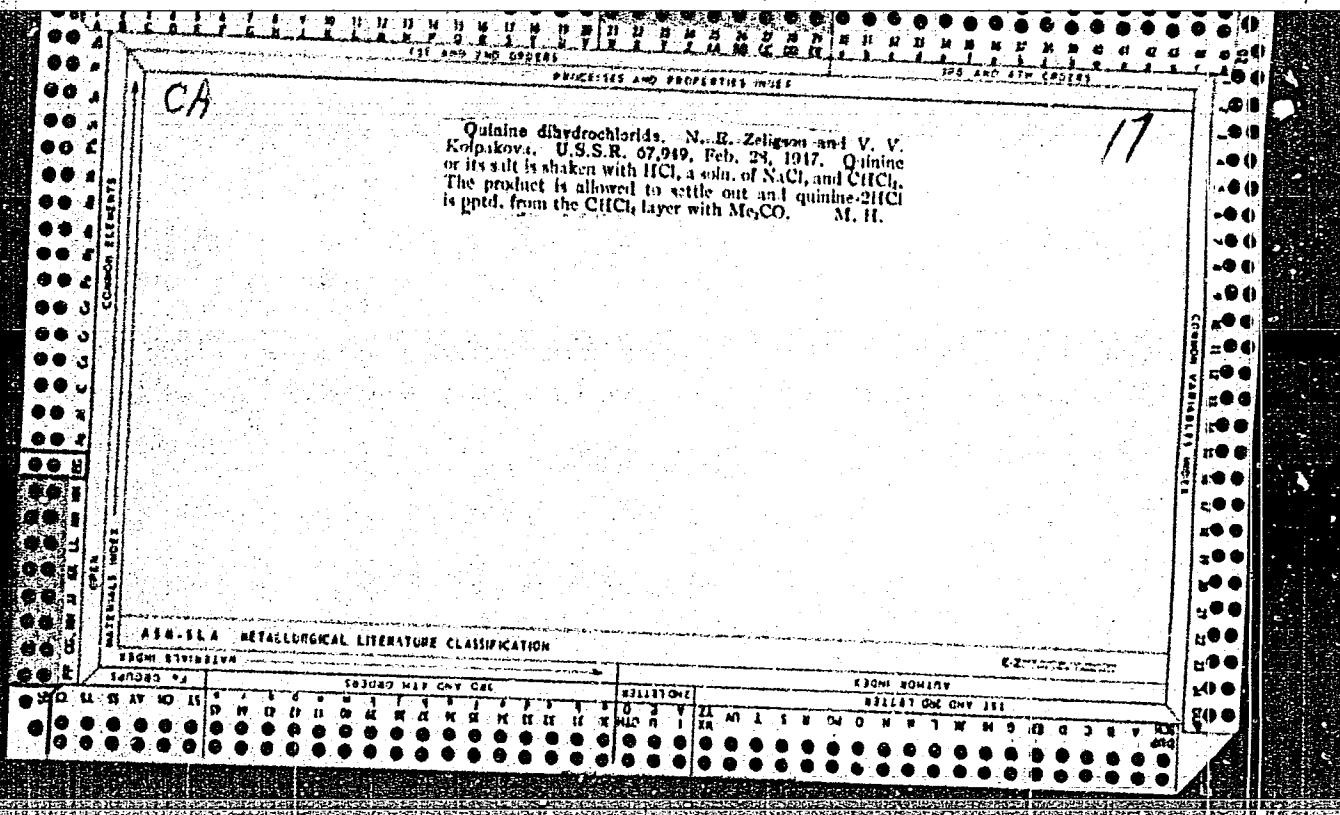
1. Z II. Kliniki Chorob Dziecięcych Akademii Medycznej w Łodzi.
Kierownik: prof. dr med. Fr. Rędlich.
(WHOOPING COUGH, prevention and control,
*Poland)

SEREJSKA, Ewa; ZELIGOWSKA, Janina

Central nervous system complications in Schoenlein-Henoch syndrome. Pediat. Pol. 39 no. 2:175-178 1964

1. Z Kliniki Diagnostyki Chorob Dzieci AM w Warszawie;
kierownik: prof. dr. med. Z. Lejmbach





CA

17

Quinine dihydrochloride. N. K. Zelikson and V. V. Kolpikova, U.S.S.R. 69,946, Dec. 31, 1947. Dissolve quinine-HCl in CHCl_3 . The H_2O of crystals separates as top layer. Remove the bottom layer, add a calcd. quantity of excess HCl and shake. The liquid separates into 2 layers, the lower being excess CHCl_3 . Collect top layer and in it mix quinine dihydrochloride with MgCO_3 . M. Hirsch

CA

Quinine alkaloids. N. E. Zeligson and V. V. Kolpakova (S. Ordzhonikidze: Chem. Pharm. Inst., Moscow). *Zhur. Priklad. Khim.* 21, 323-31 (1961); *J. Applied Chem. U.S.S.R.* 24, 357-65 (Engl. translation).—Quant. sepn. of the 8 main quinine-group alkaloids can be done only by group reactions: the Kroon-Dirscher method (*C.A.* 29, 2172¹) for sepn. of vinyl and Et derivs., and the Zeligson-Sin'kovskaya method (*C.A.* 40, 3754²) for isolation of MeO-free alkaloids. The MeO-contg. alkaloids are converted to hydrocupreidine and hydrocupredine; combining both methods yields the above mixt. and that of hydrocinchonine with hydrocinchonidine; the latter is analyzed by the optical activity of the mixt. The HCl salts of the main cinchona alkaloids are sol. in CHCl₃. The dl-HCl salts of MeO-contg. alkaloids are sol. in CHCl₃ and in the presence of H₂O form viscous solvates. Insol. in excess CHCl₃; other Cl-contg. solvents also give similar solvates. G. M. Kosolapoff

PAVLOV, M.S., inzh.; BELOUS, V.G.; ZELIK, V.I.

Auxiliary conveying along horizontal and inclined workings in
hydraulic mines. Ugol' 39 no.9:46-48 '64. (MIRA 17:10)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Pavlov).
2. Ukrainskiy nauchno-issledovatel'skiy institut gidrodobychi ugliya
(for Belous). 3. Gidrorudnik "Pioner" (for Zelik).

ARTICULATION AS A PROCESS FOR INCREASING THE STABILITY OF INSTITUTIONS

toward heat. I. S. Zelikhovskii. *Nadzornoe* 8, 114-16 (1938); *Chem. Zentr.* 1938, II, 3851. The aliting of Fe-pipes as carried out in the Stalin steels consists of heating the pipes for 22 hrs. at 950° in a powder compound of 40% Al_2O_3 , 40% of an Fe-Al mixt. (60% Al and 40% Fe), and 20% $NaCl$. The depth of the alited layer is about 0.5-0.7 mm. The aliting causes a certain reduction in the strength and the toughness of the Fe, which is greater the longer the treatment is continued. After a normalizing treatment of the alited pipes at 820-900° they show sufficiently high values of strength and toughness. The layer enriched with Al undergoes deformation less readily than the original Fe. For this reason bending of the pipes should be done before they are alited. M. G. Moore. *Trans. Inst. Met. Min.* 1938, 16, 20.

be done before they are lit.
Sponge iron. E. P. Barrett, *Steel* 105, No. 18, 48-52 (1939).—An oil-fired rotary kiln capable of producing 1 ton of sponge Fe per day from a charge consisting of a 5-3 mixt. of finely ground ore and coal is described. The best results were obtained by working the kiln at 950°. H. C. P. A.

H. C. P. A.

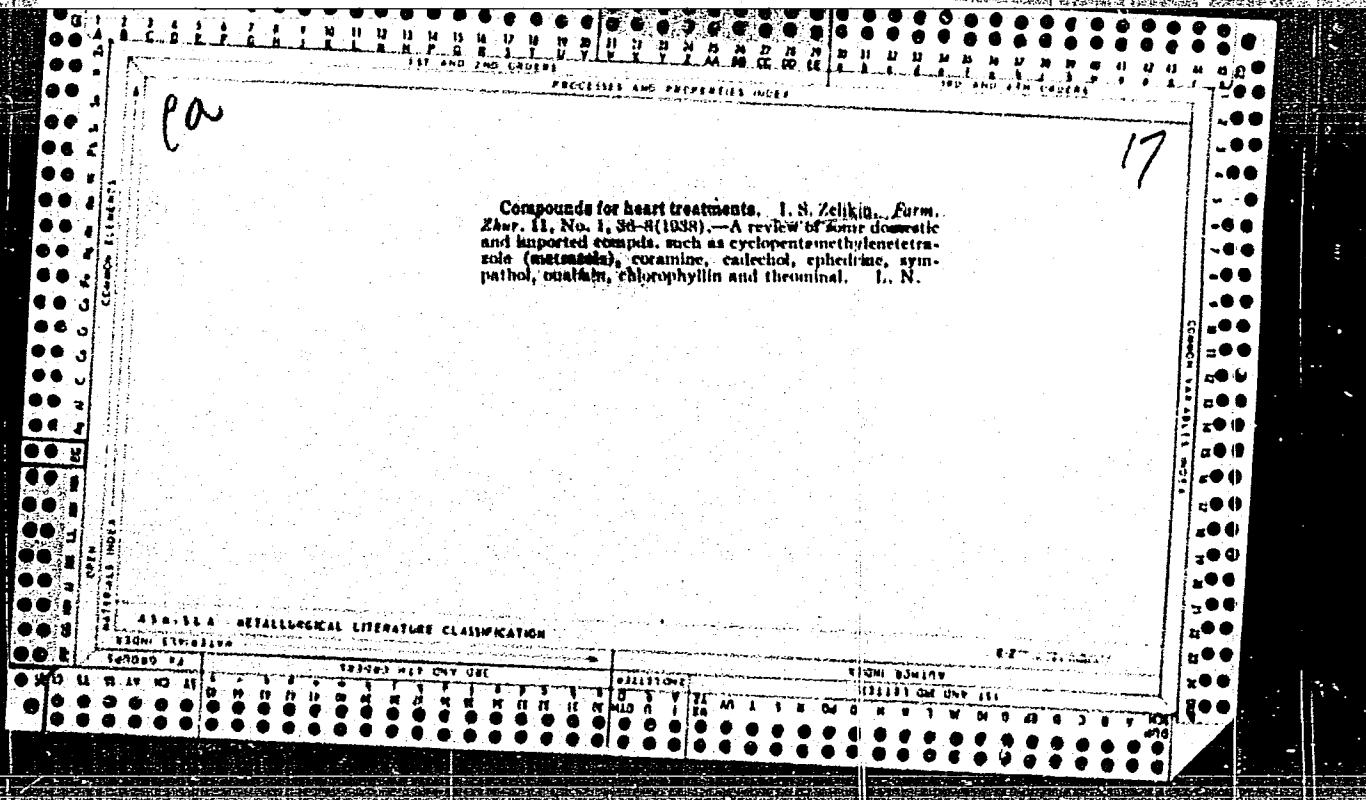
1.1. METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964310006-1"

ZOLIKODAN, G.A., mayor meditsinskoy slushby

Adaptation for the bacteriologist's table. Voen.-med.zhur.
no.6:92 Je '59. (MIRA 12:9)
(BACTERIOLOGICAL LABORATORIES--EQUIPMENT AND SUPPLIES)



ZELIKIN, I. Yu.

ZELIKIN, I. Yu.

Interpeduncular ganglion and its embryonic development in rats.
Trudy Gos. inst. po izuch. mozga 16:149-158 '49. (USSR 10:9)
(BRAIN)

ZELIKIN, I.Yu.

Cerebellifugal processes of the cerebellum in dogs. Trudy fiziol.
inst. 4:125-138 '49. (MISHA 9:5)
(CEREBELLUM)

ZELIKIN, I. Yu.

Zelikin, I. Yu. - "The dog's brain deprived of one hemisphere.
(On the question of the connections in the cerebral cortex),"
Trudy Fiziol. in-ta im. Pavlova, Vol. III, 1949, p. 107-22 --
Bibliog: p. 122

SO: U-3566, 15 March '53, (Letopis 'Zhurnal 'nykh Statey, №. 14, 1949).

ZELIKIN, I. Yu.

37250. K metodikye registratsii razmerov razlichnykh obrazovanii, snatykh na mikrofotogramme ili crisovannyykh s mikroskopa. Zhurnal obshchey biologii, 1949, No. 6, s. 420-84

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

ZELIKIN, I. YU.

"Contribution to the methods of estimating the size of various structures by
microphotographs or the camera lucida."
by Zelikin, I. Yu. (p. 480)

SO: Journal of General Biology (Zhurnal Osnovnoi Biologii) Vol. X, No. 6, 1949

ZELIKIN, I. Yu. (Co-author)

See: PINES, L. Ya.

Pines, L. Ya. and Zelikin, I. Yu. - "Question of the connections in the cerebellum of the dog," Trudy Fiziol. in-ta im. Pavlova, Vol. III, 1949, p. 88-100 -- Bibliog: p. 100
SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 1h, 1949).

ZELIKIN, I. Yu.

Mbr., Inst. Evolutionary Physiology & Pathology Higher Nervous Activity im.

I.P. Pavlov, Dept. Medico-Biol. Sci., Acad. Med. Sci., -c1949-. Mbr., Chair

Physiology, Mil. Med. Acad. im. Kirov, -c1949-; Mbr., Physiology Lab.,, Sci.

Res. Inst. im. P. N. Leesgaft, -c1949. "Regulating the Function of the Spinal Chord:

III. Role of the Various Parts of a Frog's Brain in the Regulation of the

Function of the Spinal Chord under the Influence of Adrenalin, Iochimbine, Alcohol,

& Chloral Hydrate," Fiziol. Zhur. SSSR, 35, No. 3, 1949.

ZELIKIN, M.B.; MITKEVICH, E.M.; NENNO, E.S.; OVECHKIN, Ye.K.; PANOV, V.I.;
RYDNIK, V.L.; TABUNSKHICKOV, N.P.; RATMAANSKIY, N.S., red.; ZAZUL'-
SKAYA, V.F., tekhn.red.

[Production of soda ash] Proizvodstvo kal'tsinirovannoj sody.
Pod red. M.B.Zelikina. Moskva, Gos.nauchno-tekhn.izd-vo khim.
lit-ry, 1959. 421 p. (MIRA 13:5)
(Sodium carbonate)

ZELIKIN, M.B., kand. tekhn. nauk; VISHNEVSKIY, A.N., kand. tekhn. nauk;
Prinimali uchastiye: PANFILOVA, M.L., mladshiy nauchnyy sotrudnik;
SYTNIK, L.V., mladshiy nauchnyy sotrudnik; KAMENSKAIA, N.P., mlad-
shiy nauchnyy sotrudnik; MAYSTRENKO, G.S., mladshiy nauchnyy so-
trudnik

Preparation of silica white using liquors from the soda manufacture.
[Trudy] NIOKHM 15:3-11 '63. (MIRA 18:2)

ZELIKIN, M.B., kand. tekhn. nauk; MIKULINA, O.G.

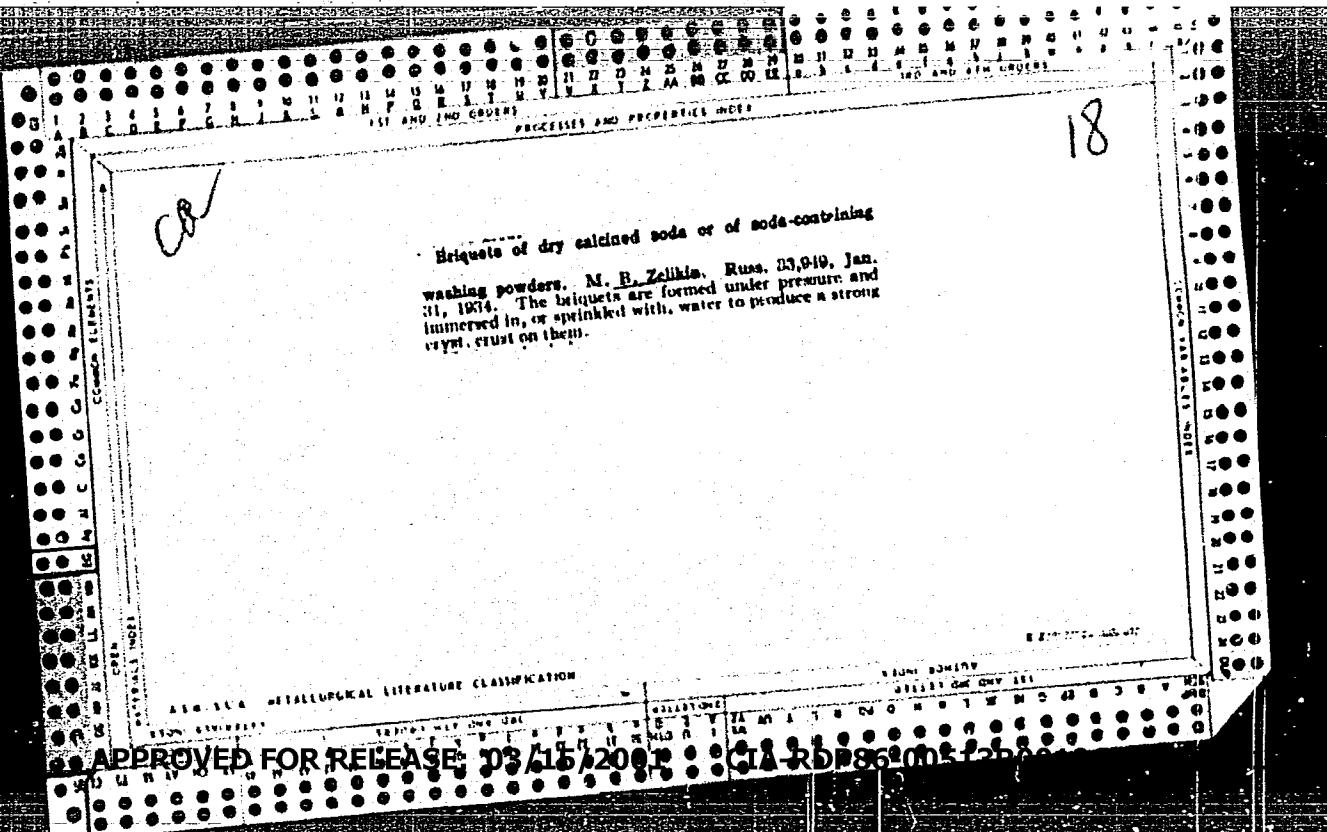
Preparation of a high-quality adsorbent for the clarification of
a polyethylene glycol solution. [Trudy] NICKHIM 15:76-82 '63.
(MIRA 18:2)

ZELIKIN, M.B., kand. tekhn. nauk; SYTKIK, L.V.; KAMENSKAYA, N.P.

Preparation of silica white by the action of hydrogen chloride
on a sodium silicate solution. Report No.1. [Trudy] NIOKHIM 15:
12-18 '63.

Determination of the specific surface of silica white based on
the adsorption of a dye. Ibid.:97-100

(MIRA 18:2)



SELIKIN, Meyer Beypusovich; RATHMANSKIY, N.S., red.; ZAZUL'SKAYA, V.F.,
tekhn. red.

[Manufacture of caustic soda by chemical processes] Proizvodstvo
kausticheskoi sody khimicheskimi sposobami. Moskva, Gos. nauchno-
tekhn. izd-vo khim. lit-ry, 1961. 231 p. (MIRA 14:8)
(Sodium hydroxide)

ZELIKIN, M. I.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Mathematical Institute imeni V.A. Steklova 1962:

"Invariant Curves of Almost Identical Reflections."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

16(1)

AUTHOR: Zelikin, M. I.

S07/155-58-2-7/47

TITLE: On the Invariant Curves of the Mapping $x^* = x + \varepsilon Y(x) + \varepsilon Z(x \varepsilon)$
(Ob invariantakh krivykh otobrazheniya $x^* = x + \varepsilon Y(x) + \varepsilon Z(x \varepsilon)$)PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,
1958, Nr 2, pp 28-36 (USSR)ABSTRACT: The n -dimensional space $X = (x^1, x^2, \dots, x^n)$ is mapped onto itself
according to the formula

(1) $x^* = x + \varepsilon Y(x) + \varepsilon Z(x \varepsilon),$

where $Y(x)$, $Z(x \varepsilon)$ are functions two times continuously differentiable with respect to x , and $Z(x \varepsilon) \rightarrow 0$ for $\varepsilon \rightarrow 0$. Let the system

(2) $\dot{y} = Y(y), \quad y = (y^1, y^2, \dots, y^n)$

have the non-degenerated periodic solution

(3) $y = y_0(t).$

"Non-degenerated" means here that the equation in the variations

(4) $\frac{d \delta y}{dt} = Y^1(y_0(t)) \delta y$

has only one characteristic root equal to 1. Let s roots be < 1
with respect to the absolute value, and $n-s-1$ roots > 1 with

Card 1/2

On the Invariant Curves of the Mapping $x^* = x + \varepsilon Y(y) + \varepsilon Z(x \varepsilon)$ SOV/155-58-2-7/47

respect to the absolute value.

Under these assumptions it is proved: The mapping (1) has an immovable curve lying in the neighborhood of (3) and for $\varepsilon \rightarrow 0$ it tends to this limit cycle. The curve is the intersection of two manifolds invariant with respect to the mapping (1) with the dimensions $s+1$ and $n-s$. For an iteration of (1) the points of the first manifold approach the immovable curve, while the points of the second manifold remove from it.

From this theorem, as a conclusion there results a well-known result of Bogolyubov (if an auxiliary system has a limit cycle, then the integral curves of the initial system fill a torus).

The paper was written under the guidance of L.S.Pontryagin. There are 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

SUBMITTED: December 25, 1957

Card 2/2

L 06555-67 FT(2) EWP(1) IJP(c)
ACC NR: AP6028013

SOURCE CODE: UR/0042/66/021/004/0272/0274

AUTHOR: Zelikin, M. I.

ORG: none

TITLE: On one differential game

SOURCE: Uspekhi matematicheskikh nauk, v. 21, no. 4, 1966, 272-274

TOPIC TAGS: pursuit problem, differential game theory, GAME THEORY,
OPERATIONS RESEARCH

ABSTRACT: The article is closely related to L. S. Pontryagin's article [Uspekhi matematicheskikh nauk, v. 21, no. 4, 1966, 219-272] in which the pursuit problem was analyzed as a problem of the theory of differential games. L. S. Pontryagin established nine conditions to be imposed upon differential games in order to complete the game. Some of these conditions can be removed. L. S. Pontryagin has proved that a differential game can be completed when only conditions 1, 2, 3, 4, 6, 8, 9 or 1, 2, 3, 4, 5, 7, 9 are satisfied. The author of this article presents an example of a differential game where conditions 2-9 are satisfied, but the first one is not satisfied. It is shown that the basic results and methods derived by L. S. Pontryagin are not applicable for such a differential game. Orig. art. has: 1 figure and 5 formulas.

SUB CODE: 121 SUBM DATE: 03Apr66/ ORIG REF: 003/ OTH REF: 001/
Card 1/1 [LK]

Zelikin, M. L.

105-9-1/32

AUTHORS Nekrasov A.M., Engineer, Groys Ye.S., Engineer, Zelikin M.L.,
Engineer, Turetskiy V.Ye., Engineer, Man'kin E.A., Candidate of
Technical Sciences.

TITLE The Transmission System Stalingrad Hydro-Electric Station-Donbass.
(Elektroperedacha postoyannogo toka Stalingradskaya GES-Donbass -
- Russian)

PERIODICAL Elektrichestvo, 1957, Nr 9, pp 1 - 10 (U.S.S.R.)

ABSTRACT The line still under construction will connect the Southern energy system with the Stalingrad hydro-electric station. In the case of a flood the energy will be transferred from Stalingrad to the Donbass and during seasonal fluctuations on the Volga it will be arranged the reverse direction. The nominally fixed power is 750 MW. Four billion kW will be transferred in both directions yearly. The length of line is 470 km, the voltage is 800 kV. The operation- and experimental results of the d.c.line Kashira-Moscow were of great importance for projecting. The design and operation of the power line is given. It is an eight-bridge scheme with earthing of the center of the d.c.part. The average rectified voltage of each bridge is 100 kV. Single-phase transformers of 82 MVA were selected for this purpose. A net-speed-control is planned as well as shunt-valves for the liquidation of operational breakdowns. The change of direction of the energy transmission is arranged by means of a net-control and without any switching in the main system. The description of the insulation as well as of the overvoltage protection, the

Card 1/2

105-9-1/32

The Transmission System Stalingrad- Hydro-Electric Station
-Donbass.

basic equipment of the transformer substations, their arrangement and the power line itself, which is constructed as open-air transmission-line, is given. Finally the technical economic indices as well as a comparison with an alternating line are given. The d.c. line is cheaper by almost 30% and has losses which are 2,5 times lower, The Stalingrad-Donbass line costs 0,9 Kop. per 1 kWh. The technical economic indices are practically the same in both cases. There are 4 tables, 10 illustrations and 9 Slavic references.

ASSOCIATION Technical Direction of MES.-Scientific Research Institute for Direct-Current.- Moscow Transformer Factory.
(Tekhnicheskoye upravleniye MES.- Nauchnoissledovatel'skiy institut postoyannogo toka.- Teploelektroprojekt.-Moskovskiy transformatornyy zavod.)

SUBMITTED January 18, 1957
AVAILABLE Library of Congress.
Card 2/2

ZELINKIN, N.I.

NEKRASOV, A.M., inzhener; GROYS, Ye.S., inzhener; ZELINKIN, N.I., inzhener;
TURETSKIY, V.Ye., inzhener; MAN'KIN, E.A., kandidat tehnicheskikh
naук.

Transmission of d.c. power from the Stalingrad hydroelectric
power station to the Donets Basin. Elektichestvo no.9:1-10
S '57. (VILMA 10:8)

1. Tekhnicheskoye upravleniye Ministerstva elektrostantsiy (for Nekrasov)
2. Nauchno-issledovatel'skiy institut postoyannogo toka (for Groys)
3. Teploelektroprojekt (for Zelinkin and Turetskiy)
4. Moskovskiy transformatornyy zavod (for Man'kin).
(Stalingrad hydroelectric power station)

DALMATS'KA, Ye.I. [Dalmats'ka, YE.I.]; ZELIKIN, M.B.

Preparation of granulated active aluminum oxide. Khim prom.
[Ukr.] no. Il-24-28 Ja-Mr'63 (MIRA 17:7)

ZELIKIN, M.B.; KAZNACHEYEVA, V.V.; NIKITENKO, L.I.; TIKHOMIROVA, I.D.

Filter materials used in the manufacture of "nitron" fibers.
Khim. volok. no.4:10-11 '65. (MIRA 18:8)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov.

ZELIKIN, M.I.; TYMYANSKIY, N.T.

Determinable differential games. *Vop. mat. nauk.* 20 no.4:151-157
(MIRA 18:8)
51-Ag '65.

ZELIKIN M. V.

ZELIKIN M. V., kandidat tekhnicheskikh nauk; TYUTYUNNIKOV, A.B., kandidat
tekhnicheskikh nauk.

Testing of bubbling apparatus by means of models. Khim.prom.
(MIRA 10:9)
no.4:231-235 Je '57.

1. Nauchno-issledovatel'skiy institut osnovnoy khimii.
(Chemical engineering--Equipment and supplies--Models)

A. S. S.

Chemistry & Physics

Rapid method for the determination of moisture [in
brick, etc.]. S. I. ZUBKIN AND M. I. LOROVOK. *Ogrom-
snyy, 1940, No. 1, 47-53; Chem. Zentral., 1940, 1, 3837;
Chem. Abstr., 36, 4983 (1942). — The method suggested is
based upon the determination of the dielectric constant of
the moist material. The apparatus is described, and a
theoretical scheme for the automatic regulation of moisture
is given.*

24

19

A rapid method for the determination of moisture [Naibnick, etc.], S. I. Zelikin and M. I. Lopovok. *Organic*, 8, 47-53 (Jan., 1940); *Chem. Zentr.*, 1940, I, 3837.—The method suggested is based upon the dielectric const. of the moist material. The app. is described and a theoretical scheme for the automatic regulation of moisture is given. M. O. Moore

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L 14625-66 EWT(l)/EWT(m)/EWP(t)/EMP(b) IJP(c) JD/JG
ACC NR: AP5025305 SOURCE CODE: UR/0051/65/019/004/0611/0615

AUTHOR: Berdnikov, S. L.; Zelikin, Ya. M.

ORG: none

TITLE: Effect of vanadium pentoxide impurity on the luminescence of zinc oxide

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 611-615

TOPIC TAGS: zinc compound, vanadium compound, zinc oxide, luminescence spectrum, excitation spectrum, vanadium pentoxide

ABSTRACT: Comparison of the luminescence and excitation spectra of ZnO containing 1 mole % V₂O₅ revealed the following: (1) The short-wave region of the luminescence spectrum is much less extensive than in ZnO samples containing intensifiers such as Al and Cd; (2) After firing at 10⁻⁵ mm Hg at 900C, the yellow luminescence band disappears from the spectra of pure ZnO and ZnO containing intensifiers, but is retained in the spectrum of ZnO containing V₂O₅; (3) The excitation spectrum of ZnO containing V₂O₅ differs sharply from that of pure ZnO and ZnO with intensifiers. It is postulated that these features are due to the fact that the luminescence observed is caused by a compound of zinc oxide and vanadium oxide. The identity of the luminescence and excitation

Card 1/2

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ACC NR: AP5025305

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spectra of $ZnO \cdot 1$ mole % V_2O_5 and zinc orthovanadate and at the same time the substantial difference in the stability of their luminescence relative to roasting in air, vacuum, and hydrogen are consistent with the hypothesis that in $ZnO \cdot 1$ mole % V_2O_5 the luminescence is due to a microphase of zinc orthovanadate, which, being combined with the crystal lattice of zinc oxide, is more stable than zinc orthovanadate alone. This activation of the base by a microphase of the compound formed between the base and the activator occurs in all probability in other phosphors as well. Orig. art. has: 6 figures and 1 table.

SUB CODE: 07, 20 / SUBM DATE: 28Jul64 / ORIG REF: 004

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CIA-RDP86-00513R001964310006-1

SUBMITTED: 01Aug64

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Characteristics of the thermoluminescence of zinc oxide.
Opt. i spektr. 13 no.4:554-557 O '62. (MIRA 16:3)
(Luminescence) (Zinc oxide)

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Preparation and properties of sublimated layers of luminescent
zinc oxide and zinc sulfide. Prib. i tekhn. eksp. 7 no.2:130-
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1. Leningradskiy gosudarstvennyy universitet.
(Luminescent substances)

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ACCESSION NR:	EWI(1) IJP(a)
AUTHOR:	Vilesov, F. I.; Zagrubetskiy, A. A.; Zelikin, Ya. M.
TITLE:	Excitation of fluorescence of zinc oxide by "hot" photoelectrons generated by vacuum ultraviolet radiation
SOURCE:	Fizika tverdogo tela, v. 7, no. 7, 1965, 2232-2234
TOPIC TAGS:	zinc oxide, fluorescence, uv radiation, electron bombardment, photo-electron
ABSTRACT:	This is a continuation of earlier investigations in the 1600--1000 Å range (DAN SSSR v. 141, 1068, 1961), but extended to the 4000--8500 (3.0--14.5 ev) range. The purpose of the investigation was to identify the mechanism responsible for the decrease in the kinetic energy of the primary photoelectrons. The samples investigated were dense polycrystalline sublimated layers of zinc oxide prepared by a method described earlier (PTE no. 2, 130, 1962). The measured spectrum consists of three peaks at photon excitation energies 3.5 ± 0.2 , 7.5 ± 0.2 , and 10.8 ± 0.2 ev, and 3 minima at 6.4 ± 0.2 , 9.4 ± 0.2 , and 12.8 ± 0.2 ev. The main feature of this spectrum is the fact that the peaks are equidistant, with the energy difference of this equal to the width of the forbidden band (3.2 ev). Such a spectrum can
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be attributed to impact ionization of the valence electrons in the conduction band by the primary electrons which have sufficient kinetic energy. The results indicate also that the quantum yield of the fluorescence of the zinc oxide is increased by the impact ionization of the valence electrons when excited with vacuum ultraviolet. This agrees with the universally accepted opinion that the effective mass of the hole in zinc oxide is much larger than the effective mass of the electron. Orig. art. has: 1 figure.

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